

~~SECRET/CONTROL~~ - U.S. OFFICIALS ONLY
SECURITY INFORMATION

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Germany (Russian Zone)

FBI Abstract of [redacted]

Radio Direction Finder for Use on Ships -- 4 pp -- German -- [redacted]

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This radio direction finder, consisting of Loop Antenna PB 31-1 (or PB 31-24) and Receiver PB 31-1, serves for locating transmitters within a frequency band of 250 - 545 kc. It is employed on ships at sea for direction finding.

The receiving portion of the installation is a superheterodyne with two tunable input circuits, two band-pass filters, and two oscillators. The intermediate frequency is 125 kc. In A_1 operation its bandwidth is 10K - 20K cps, and in A_2 and A_3 operation, it is 1 - 2 kc.

The installation operates on 220 V-50Hz, 220 volt line; in emergencies it can be operated on a battery in conjunction with a transformer. The total weight of the unit is 90 kg.

The report is accompanied by a complete circuit diagram, and two diagrams showing the dimensions of the loop antenna and the RF receiver. The photograph listed as Sheet No 5 in the list of documents was not appended.

The device was developed by the VEB Funkwerk Kopenick WER [redacted] according to [redacted]; however, the firm of VEB Radio- u. Fernmeldetechnik, Leipzig C 1, appears on the documents.

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RETAIN OR DESTROY

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Abstracted by [redacted]

April 2,